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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/521,351	01/12/2005	Takamasa Katoh	H6808.0071/P071	9170	
24998 DICKSTEIN SI	7590 03/21/2007 HAPIRO LLP		EXAM	EXAMINER	
1825 EYE STR	EET NW		MARTINELL, JAMES		
Washington, DC 20006-5403		•	ART UNIT	PAPER NUMBER	
		1634			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MO	NTHS	03/21/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
•	10/521,351	KATOH ET AL.		
Office Action Summary	Examiner	Art Unit		
	James Martinell	1634		
The MAILING DATE of this communication app Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versiliure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
earned patent term adjustment. See 37 CFR 1.704(b). Status				
1) Responsive to communication(s) filed on 18 Ju	action is non-final. nce except for formal matters, pro	· ·		
Disposition of Claims				
4) Claim(s) <u>1-6</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) <u>1-6</u> is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o				
Application Papers				
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 12 January 2005 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	a) \square accepted or b) \square objected drawing(s) be held in abeyance. Section is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Paper No(s)/Mail Date Other:				

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Claims 1, 2, and 3 are objected to because of the following informalities.

(a) The recitation of "processing information on nucleotide sequence" (claims 1, 2, 3and3) is awkward. Changing the passage to "processing nucleotide sequence information" would be sufficient to overcome this objection.

Appropriate correction is required.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-6 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims of copending Application Serial Numbers as appear in the following table. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims in the following table are embraced by the broader instant claims 1-6.

Copending Application SN	Claims
10/976,039	14-16, 43, and 44
10/975,453	17-21, 45-49, 101, and 102
10/543,759	1-6
10/535,407	1-6
10/534,979	1, 3, and 9-11

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Copending Application SN	<u>Claims</u>
10/496,588	1-25
10/372,923	61, 64, 69-72, 82, 85, and 101-104
10/153,691	1, 4, 9-13, 26, 29, 33, 34, 36, 41, 42, 54, 56, 57, and 61-68

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are vague, indefinite, and incomplete.

- (a) The recitation of "nucleotide sequence-related information associated with positional information" (claim 1(c)) is vague and indefinite because the instant application does not clearly define "associated with".
- (b) The recitation of "nucleotide sequence-related information corresponding to the positional information" (claim 1(c)) is vague and indefinite because the instant application does not clearly define "corresponding to".
 - (c) The recitation of "semantic information" (claims 1(c), 1(d), 2(b), 2(c), and 3(d)) is vague and indefinite because the instant application does not distinguish between semantic information and non-semantic information.
 - (d) The recitation of "information implied" (claims 1(c), 2(b), and 3(d)) is vague and indefinite because the meaning of the term is not understood within the context of the claims.

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(e) The recitation of "information associated with the semantic information" (claims 1(c), 1(d), 29b), and 2(c)) is vague and indefinite because the instant application does not clearly define "associated with".

- (f) The recitation of "in association with the positional information corresponding thereto" (claims 1(d), 2(c), and 3(d)) is vague and indefinite because the instant application does not clearly define "corresponding to".
- (g) The recitation of "corresponding thereto" (claim 1(d)) is incomplete because the antecedent is unclear.
- (h) The recitation of "to the party" (claim 1(d)) is incomplete because there is no antecedent basis for the phrase.
- (i) The recitation of "associated with positional information representing a position in a nucleotide sequence" (claim 2(a)) is vague and indefinite because the instant application does not clearly define "associated with".
- (j) The recitation of "in accordance with requested information" (claim 2(a)) is incomplete because there is no antecedent basis for the phrase.
- (k) The recitation of "the party that had transmitted nucleotide sequence-related information in step (a)" (claim 2(a)) is incomplete because there is no antecedent basis for the phrase.
- (I) The recitation of "the party that had transmitted the requested information" (claim 2(c)) is incomplete because there is no antecedent basis for the phrase.
- (m) The recitation of "the requested information" (claim 2(c)) is incomplete because there is no antecedent basis for the phrase.
- (n) The recitation of "the party that utilizes the semantic information and/or information associated with the semantic information" is incomplete because there is no antecedent basis for the phrase.

(o) The recitation of "obtaining from a plurality . . . corresponding to the positional information received in step (a)" (claim 3(b)) is vague and indefinite because the passage is not understood.

- (p) The recitation of "consistency." (claims 4 and 5) is vague and indefinite because the metes and bounds of the claims are not clear. The instant application does not distinguish between consistency and inconsistency.
- (q) The recitation of "the positional information related to the nucleotide sequencerelated information transmitted in step (c)" (claim 4) is incomplete because there is no antecedent basis for the phrase.
- (r) The recitation of "alerting the party" (claim 5) is incomplete because there is no antecedent basis for the phrase.
- (s) The recitation of "positional information associated with the nucleotide sequencerelated information transmitted in step (c)" (claims 5 and 6) is vague and indefinite because the instant application does not clearly define "associated with".
- (t) The recitation of "disclosing the information concerning the party that had received the nucleotide sequence-related information" (claim 6) is incomplete because there is no antecedent basis for the phrase.
- (u) The recitation of "a third party" (claim 6) is incomplete because there is no antecedent basis for the phrase.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by any one of Boyce-Jacino et al (WO 01/26029 (April 12, 2001), Denton et al (WO 01/01218 (January 4, 2001), or Qiagen Art Unit: 1634

Product Guide 2000 (Qiagen Inc., Valencia, CA, 2000, pages 250-253). Boyce-Jacino et al teaches the transmission of nucleic acid sequence data over the Internet (*e.g.*, see the Abstract, pages 7-12, and

claims 1-31). Denton et al teaches the determination of haplotypes and the transmission of nucleic acid

sequence data over a communications network (e.g., see the Abstract. pages 7-10, and 27-29). Qiagen

product Guide 2000 teaches the determination of nucleic acid sequence data and the reporting of said

data to a requester (e.g., see pages 250-253). The claims are broad enough to embrace the methods

taught in any one of the references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Martinell whose telephone number is (571) 272-0719.

The examiner works a flexible schedule and can be reached by phone and voice mail.

Alternatively, a request for a return telephone call may be e-mailed to james.martinell@uspto.gov. Since

e-mail communications may not be secure, it is suggested that information in such requests be limited to

name, phone number, and the best time to return the call.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla, can be reached on (571) 272-0735.

OFFICIAL FAX NUMBER

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Any Official Communication to the USPTO should be faxed to this number.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

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James Martinell, Ph.D. Primary Examiner

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